

AMENDMENTS TO THE CLAIMS

The following is a complete, marked-up listing of revised claims with a status identifier in parenthesis, underlined text indicating insertions, and strike through and/or double-bracketed text indicating deletions.

Listing Of Claims

1. (Currently Amended) A non-transitory computer readable medium having a data structure for managing reproduction of data recorded on the computer readable medium, comprising:

a data area storing at least first and second clip stream files, the first clip stream file including video data representing at least one still image, the second clip stream file including audio data; and

a database area including a playlist area storing a playlist file, the playlist file including at least one playitem and at least one sub-playitem, the at least one playitem indicating an in-point and out-point of the first clip stream file to reproduce the at least one still image and providing display mode, the display mode indicating to display the at least one still image for a finite period of time if the at least one still image is to be displayed for a finite period of time, the display mode indicating to display the at least one still image for an infinite period of time if the at least one still image is to be displayed for an infinite period of time, the at least one sub-playitem indicating an in-point and out-point of the second clip stream file to reproduce the audio data,

wherein the at least one playitem further includes the duration information indicating a length of time to display the at least one still image when the display mode indicates to display the at least one still image for a finite period of time, and

wherein the database area includes first mapping information between a presentation time and a unit of the first clip stream file and second mapping information between a presentation time and a unit of the second clip stream file, and the first mapping information includes at least one entry point, every still image in the first clip stream file being pointed to by an entry point.

~~wherein the playlist file further includes type information and repeat information, the type information identifying whether reproduction being indicated by the at least one playitem is synchronized with reproduction being indicated by the at least one sub-playitem, and the repeat information identifying whether to repeat the reproduction indicated by the at least one sub-playitem.~~

2. (Currently Amended) The non-transitory computer readable medium of claim 1, wherein the at least one sub-playitem includes indicator indicating the at least one playitem related to the at least one sub-playitem such that the audio data is played in association with the at least one still image.

3-4. (Canceled)

5. (Currently Amended) The non-transitory computer readable medium of claim 1, wherein the database area includes type information, the type information identifying whether reproduction using the at least one playitem is synchronized with reproduction using the at least one sub-playitem ~~the first clip stream file includes video data representing more than one still image; and~~
~~the at least one playitem indicates to reproduce a number of the still images.~~

6. (Currently Amended) A method of recording a data structure for managing reproduction of data recorded on a recording medium, comprising:

recording at least first and second clip stream files in a data area of [[on]] the recording medium, the first clip stream file including video data representing at least one still image, the second clip stream file including audio data; and

recording a playlist file in a database area of [[on]] the recording medium, the playlist file including at least one playitem and at least one sub-playitem, the at least one playitem indicating an in-point and out-point of the first clip stream file to reproduce the at least one still image and providing display mode, the display mode indicating to display the at least one still image for a finite period of time if the at least one still image is to be displayed for a finite period of time, the display mode indicating to display the at least one still image for an infinite period of time if the at least one still image is to be displayed for an infinite period of time, the at least one sub-playitem indicating an in-point and out-point of the second clip stream file to reproduce the audio data,

wherein the at least one playitem further includes the duration information indicating a length of time to display the at least one still image when the display mode indicates to display the at least one still image for a finite period of time, and

wherein the database area includes first mapping information between a presentation time and a unit of the first clip stream file and second mapping information between a presentation time and a unit of the second clip stream file, and

the first mapping information includes at least one entry point, every still image in the first clip stream file being pointed to by an entry point

~~wherein the playlist file further includes type information and repeat information, the type information identifying whether reproduction being indicated by the at least one playitem is synchronized with reproduction being indicated by the at~~

~~least one sub-playitem, and the repeat information identifying whether to repeat the reproduction indicated by the at least one sub-playitem.~~

7. (Currently Amended) A method of reproducing a data structure for managing reproduction of data recorded on a recording medium, comprising:

reproducing at least first and second clip stream files from a data area of the recording medium, the first clip stream file including video data representing at least one still image, the second clip stream file including audio data; and

reproducing a playlist file from a database area of the recording medium, the playlist file including at least one playitem and at least one sub-playitem, the at least one playitem indicating an in-point and out-point of the first clip stream file to reproduce the at least one still image and providing display mode, the display mode indicating to display the at least one still image for a finite period of time if the at least one still image is to be displayed for a finite period of time, the display mode indicating to display the at least one still image for an infinite period of time if the at least one still image is to be displayed for an infinite period of time, the at least one sub-playitem indicating an in-point and out-point of the second clip stream file to reproduce the audio data,

wherein the at least one playitem further includes the duration information indicating a length of time to display the at least one still image when the display mode indicates to display the at least one still image for a finite period of time, and

wherein the database area includes first mapping information between a presentation time and a unit of the first clip stream file and second mapping information between a presentation time and a unit of the second clip stream file, and

the first mapping information includes at least one entry point, every still image in the first clip stream file being pointed to by an entry point

~~wherein the playlist file further includes type information and repeat information, the type information identifying whether reproduction being indicated by the at least one playitem is synchronized with reproduction being indicated by the at least one sub-playitem, and the repeat information identifying whether to repeat the reproduction indicated by the at least one sub-playitem.~~

8. (Currently Amended) An apparatus for recording a data structure for managing reproduction of data recorded on a recording medium, comprising:

a pick up configured to record data on the recording medium; and

a controller configured to control the pick up to record at least first and second clip stream files in a data area and a playlist file in a database area of [[on]] the recording medium, the first clip stream file including video data representing at least one still image, the second clip stream file including audio data, the playlist file including at least one playitem and at least one sub-playitem, the at least one playitem indicating an in-point and out-point of the first clip stream file to reproduce the at least one still image and providing display mode indicating to display the at least one still image for a finite period of time if the at least one still image is to be displayed for a finite period of time, the display mode indicating to display the at least one still image for an infinite period of time if the at least one still image is to be displayed for an infinite period of time, the at least one sub-playitem indicating an in-point and out-point of the second clip stream file to reproduce the audio data,

wherein the at least one playitem further includes the duration information indicating a length of time to display the at least one still image when the display mode indicates to display the at least one still image for a finite period of time, and

wherein the database area includes first mapping information between a presentation time and a unit of the first clip stream file and second mapping information between a presentation time and a unit of the second clip stream file, and the first mapping information includes at least one entry point, every still image in the first clip stream file being pointed to by an entry point

~~wherein the playlist file further includes type information and repeat information, the type information identifying whether reproduction being indicated by the at least one playitem is synchronized with reproduction being indicated by the at least one sub-playitem, and the repeat information identifying whether to repeat the reproduction indicated by the at least one sub-playitem.~~

9. (Currently Amended) An apparatus for reproducing a data structure for managing reproduction of data recorded on a recording medium, comprising:

a pick up configured to reproduce data recorded on the recording medium; and
a controller configured to control the pick up to reproduce at least first and second clip stream files from a data area and a playlist file from a database area of the recording medium, the first clip stream file including video data representing at least one still image, the second clip stream file including audio data, the playlist file including at least one playitem and at least one sub-playitem, the at least one playitem indicating an in-point and out-point of the first clip stream file to reproduce the at least one still image and providing display mode, the display mode indicating to display the at least one still image for a finite period of time if the at least one still image is to be displayed for a finite period of time, the display mode indicating to display the at least one still image for an infinite period of time if the at least one still image is to be displayed for an infinite period of time, the at least one sub-playitem

indicating an in-point and out-point of the second clip stream file to reproduce the audio data,

wherein the at least one playitem further includes the duration information indicating a length of time to display the at least one still image when the display mode indicates to display the at least one still image for a finite period of time, and

wherein the database area includes first mapping information between a presentation time and a unit of the first clip stream file and second mapping information between a presentation time and a unit of the second clip stream file, and

the first mapping information includes at least one entry point, every still image in the first clip stream file being pointed to by an entry point

~~wherein the playlist file further includes type information and repeat information, the type information identifying whether reproduction being indicated by the at least one playitem is synchronized with reproduction being indicated by the at least one sub-playitem, and the repeat information identifying whether to repeat the reproduction indicated by the at least one sub-playitem.~~

10. (Previously Presented) The method of claim 6, wherein the at least one sub-playitem includes indicator indicating the at least one playitem related to the at least one sub-playitem such that the audio data is played in association with the at least one still image.

11-12. (Canceled)

13. (Currently Amended) The method of claim 6, wherein the database area includes type information, the type information identifying whether reproduction using the at least one playitem is synchronized with reproduction using the at least one sub-

~~playitem first clip stream file includes video data representing more than one still image; and~~

~~the at least one playitem indicates to reproduce a number of the still images.~~

14. (Previously Presented) The method of claim 7, wherein the at least one sub-playitem includes indicator indicating the at least one playitem related to the at least one sub-playitem such that the audio data is played in association with the at least one still image.

15-16. (Canceled)

17. (Currently Amended) The method of claim 7, wherein the database area includes type information, the type information identifying whether reproduction using the at least one playitem is synchronized with reproduction using the at least one sub-playitem~~first clip stream file includes video data representing more than one still image; and~~

~~the at least one playitem indicates to reproduce a number of the still images.~~

18. (Previously Presented) The apparatus of claim 8, wherein the at least one sub-playitem includes indicator indicating the at least one playitem related to the at least one sub-playitem such that the audio data is played in association with the at least one still image.

19-20. (Canceled)

21. (Currently Amended) The apparatus of claim 8, wherein the database area includes type information, the type information identifying whether reproduction using the at least one playitem is synchronized with reproduction using the at least one sub-playitem ~~first clip stream file includes video data representing more than one still image; and~~

~~the at least one playitem indicates to reproduce a number of the still images.~~

22. (Previously Presented) The apparatus of claim 9, wherein the at least one sub-playitem includes indicator indicating the at least one playitem related to the at least one sub-playitem such that the audio data is played in association with the at least one still image.

23-24. (Canceled)

25. (Currently Amended) The apparatus of claim 9, wherein the database area includes type information, the type information identifying whether reproduction using the at least one playitem is synchronized with reproduction using the at least one sub-playitem ~~first clip stream file includes video data representing more than one still image; and~~

~~the at least one playitem indicates to reproduce a number of the still images.~~

26. (Currently Amended) The non-transitory computer readable medium of claim 1, ~~further comprising:~~ wherein the database area includes a clip information area storing first and second clip information files, the first clip information file being associated with the first clip stream file, the first clip information file including first mapping information between a presentation time and a unit of the first clip stream

~~file, the second clip information file being associated with the second clip stream file,
the second clip information file including second mapping information between a
presentation time and a unit of the second clip stream file for the second clip stream
file.~~

27. (Currently Amended) The method of claim 6, wherein the database area
includes further comprising:

~~recording first and second clip information files in a clip information area
storing first and second clip information on the recording medium, the first clip
information file being associated with the first clip stream file, the first clip information
file including first mapping information between a presentation time and a unit of the
first clip stream file, the second clip information file being associated with the second
clip stream file, the second clip information file including second mapping information
between a presentation time and a unit of the second clip stream file for the second
clip stream file.~~

28. (Currently Amended) The method of claim 7, wherein the database area
includes further comprising:

~~reproducing first and second clip information files a clip information area
storing first and second clip information from the recording medium, the first clip
information file being associated with the first clip stream file, the first clip information
file including first mapping information between a presentation time and a unit of the
first clip stream file, the second clip information file being associated with the second
clip stream file, the second clip information file including second mapping information
between a presentation time and a unit of the second clip stream file for the second
clip stream file.~~

29. (Currently Amended) The apparatus of claim 8, wherein the database area includes ~~controller is configured to control the optical reproducing device to record first and second clip information files in a clip information area storing first and second clip information on the recording medium~~, the first clip information file being associated with the first clip stream file, ~~the first clip information file including first mapping information between a presentation time and a unit of the first clip stream file~~, the second clip information file being associated with the second clip stream file, ~~the second clip information file including second mapping information between a presentation time and a unit of the second clip stream file for the second clip stream file.~~

30. (Currently Amended) The apparatus of claim 9, wherein the database area includes ~~controller is configured to control the optical reproducing device to reproduce first and second clip information files in a clip information area storing first and second clip information on the recording medium~~, the first clip information file being associated with the first clip stream file, ~~the first clip information file including first mapping information between a presentation time and a unit of the first clip stream file~~, the second clip information file being associated with the second clip stream file, ~~the second clip information file including second mapping information between a presentation time and a unit of the second clip stream file for the second clip stream file.~~

31. (Previously Presented) The method of claim 7, wherein the recording medium is a read-only recording medium.

32. (Previously Presented) The method of claim 7, wherein the recording medium is a recordable recording medium.

33. (Previously Presented) The apparatus of claim 9, wherein the recording medium is a read-only recording medium.

34. (Previously Presented) The apparatus of claim 9, the recording medium is a recordable recording medium.

35. (New) The non-transitory computer readable medium of claim 1, wherein the at least one still image is selected from the video data.

36. (New) The method of claim 6, wherein the at least one still image is selected from the video data.

37. (New) The method of claim 7, wherein the at least one still image is selected from the video data.

38. (New) The apparatus of claim 8, wherein the at least one still image is selected from the video data.

39. (New) The apparatus of claim 9, wherein the at least one still image is selected from the video data.

*** END CLAIM LISTING ***